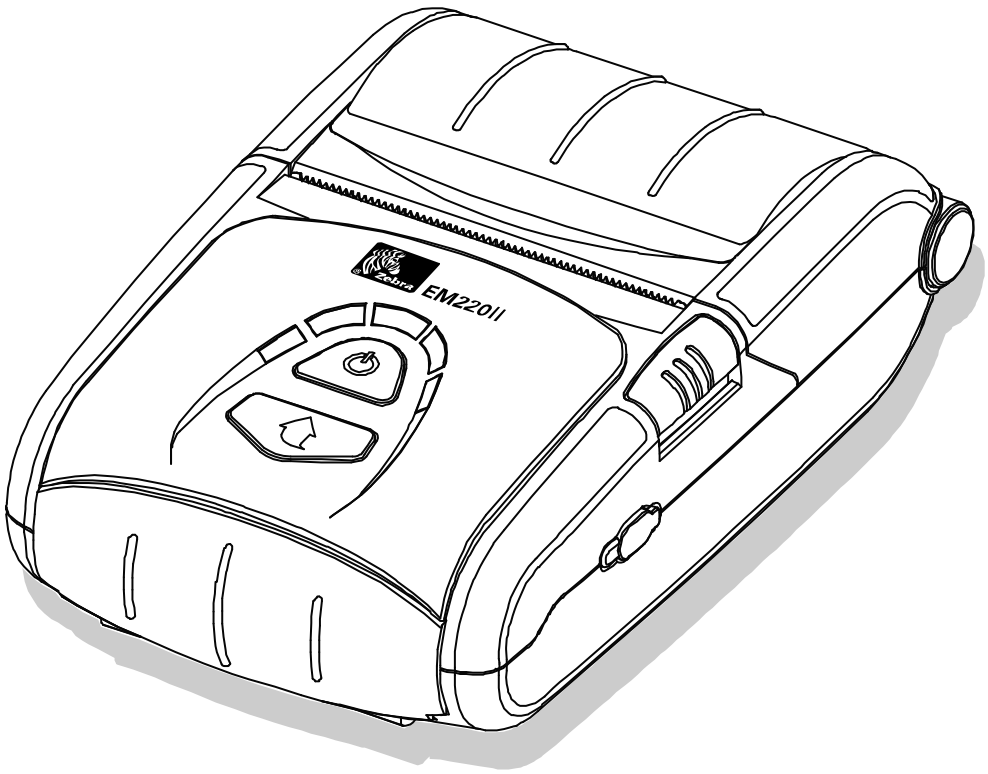
EM220II

Mobile Printer

Windows Driver Manual



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NOTE: This equipment has been tested and found to comply with the limits or a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet or circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

WARNING: Exposure to Radio Frequency radiation. To conform to FCC RF exposure requirements this device shall be used in accordance with the operating conditions and instructions listed in this manual.

NOTE: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to insure compliance.

Changes or modifications to this unit not expressly approved by Zebra Technologies Corporation could void the user’s authority to operate this equipment.

Canadian Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.

“IC:” before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user’s satisfaction.

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1. Manual Information

This Windows Driver Installation Manual provides information on installation, detailed specifications, and usage of the printer's Windows Driver according to PC operating system (OS).

2. Operating System (OS) Environment

The following operating systems are supported for usage:

- Microsoft Windows XP (32bit/64bit)
- Microsoft Windows 2003 Server (32bit/bit)
- Microsoft Windows Embedded For Point Of Service
- Microsoft Windows VISTA (32bit/64bit)
- Microsoft Windows Server 2008 (32bit/64bit)
- Microsoft Windows Server 2008R2 (64bit)
- Microsoft Windows 7 (32bit/64bit)
- Microsoft Windows 8 (32bit/64bit)

If ".NET Framework 3.5 SP1" is already installed on Windows XP or Windows 2003 Server the warning message box may appear while installing. We recommend you to install the hotfix. Visit at **http://www.microsoft.com/en-us/download/details.aspx?id=18127**

3. Windows Driver Preparation

The Windows Driver is included in the enclosed CD, and can also be downloaded from the Zebra website.
(http://www.zebra.com/)

If downloading from the Zebra website, first download the EM220II_Vx.x.xx.zip file, then unzip the file, and run the EM220II_Vx.x.xx.exe file.

If using the enclosed CD, click the "Windows Driver" button to find and run the Windows Driver installation file (EM220II_Vx.x.xx.exe).

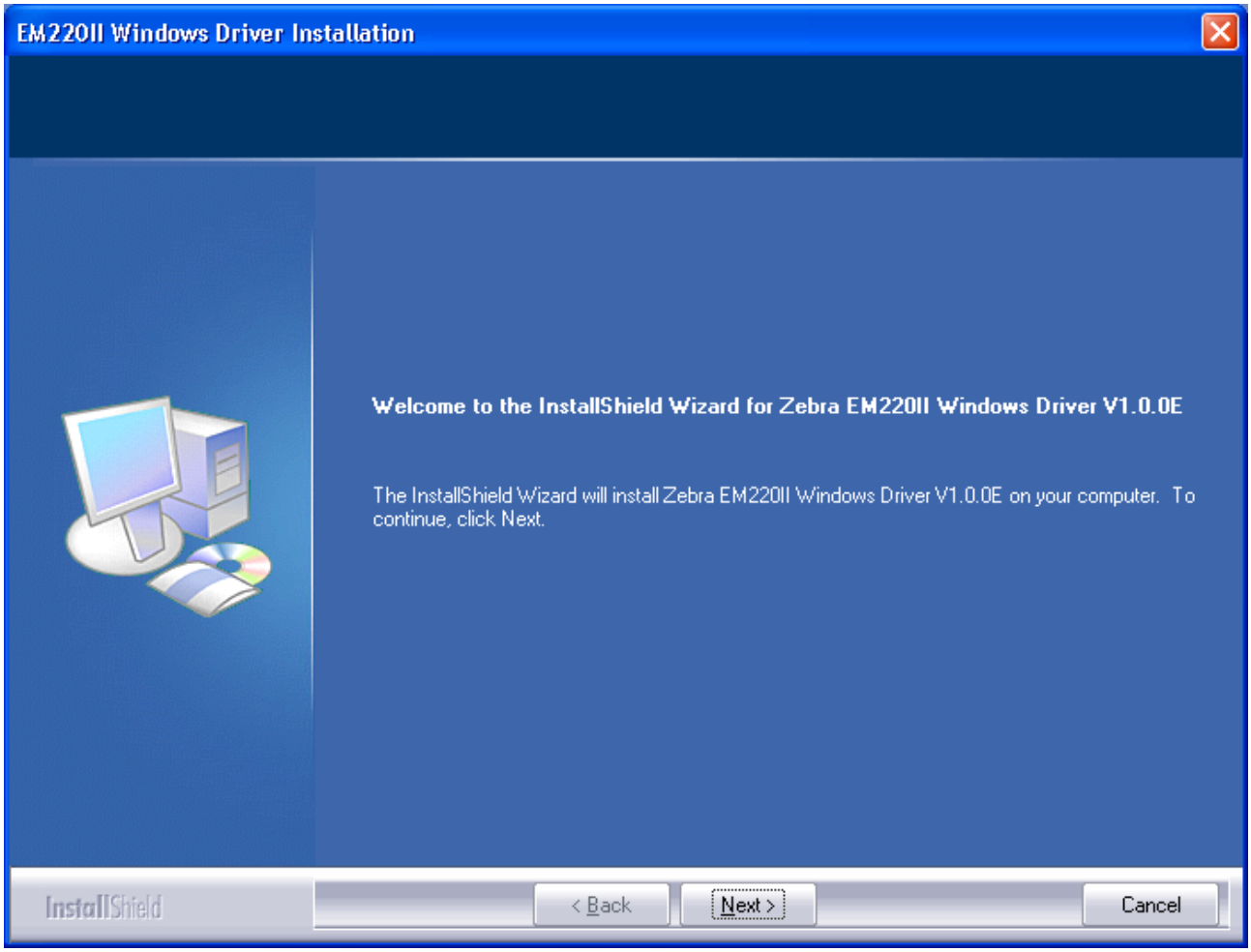
4. Windows Driver Installation

4-1 Installing on Windows XP/2003 Server

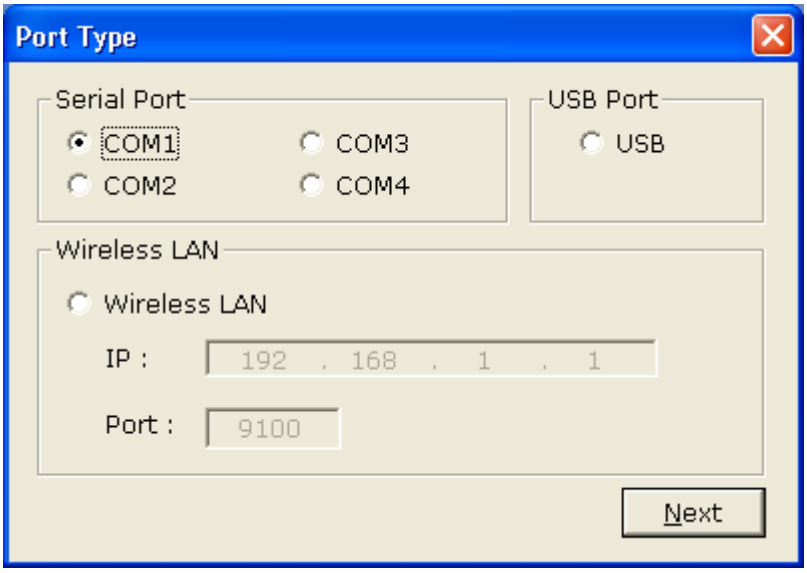
4-1-1 Via Serial Port or Bluetooth

1) Double-click the Windows Driver installation file (EM220II_Vx.x.xx.exe).

2) Click the “Next” button.

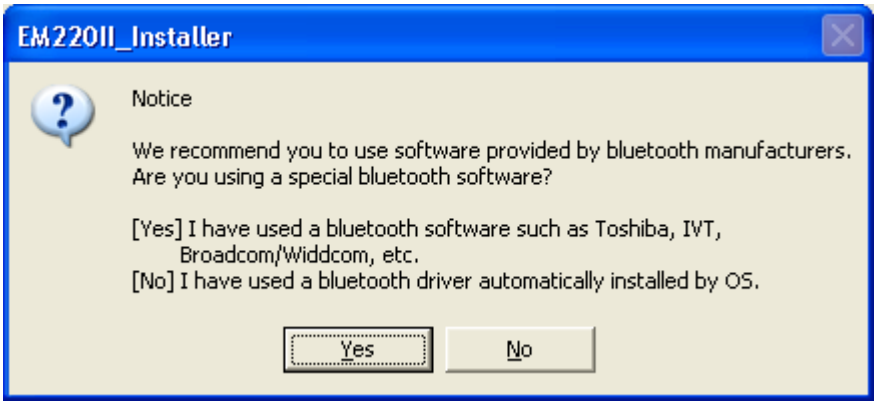

EM220II Windows Driver Installation
Welcome to the InstallShield Wizard for Zebra EM220II Windows Driver V1.0.0E
The InstallShield Wizard will install Zebra EM220II Windows Driver V1.0.0E on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

3) Select the COM port to be used and click the “Next” button.



4) If using Bluetooth, click the “Yes” button.
- Click “No” if using a Serial port.
- To use Bluetooth, first install the corresponding product software.
(Refer to the user manual of the corresponding product.)

* Select the Bluetooth Driver to be used.
“Yes”: to use an IVT, Broadcom Driver
“No”: to use a driver supplied by the Windows OS


EM220II_Installer
Notice
We recommend you to use software provided by bluetooth manufacturers.
Are you using a special bluetooth software?
[Yes] I have used a bluetooth software such as Toshiba, IVT,
Broadcom/Widdcom, etc.
[No] I have used a bluetooth driver automatically installed by OS.
Yes
No

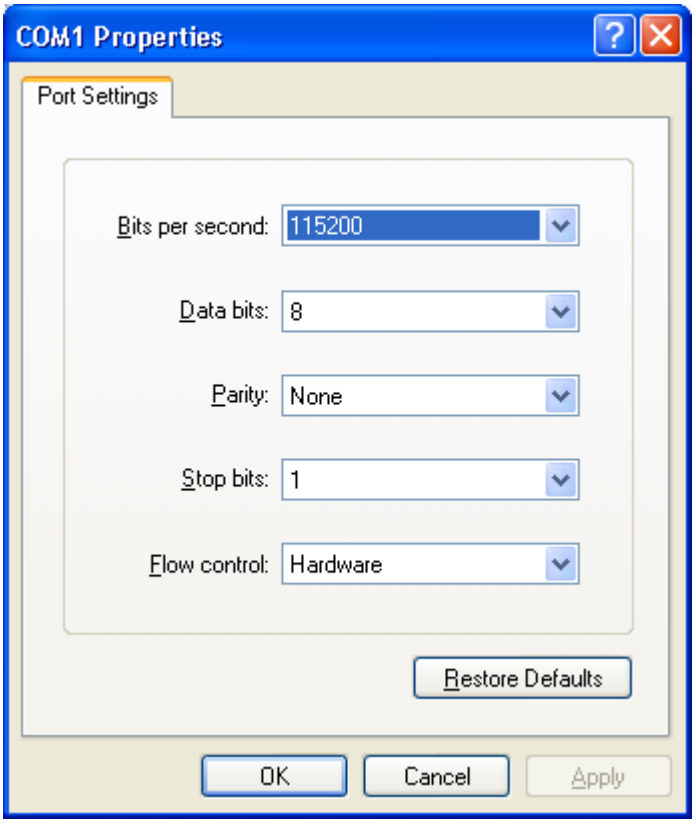
5) Clicking the “Yes” button will reboot the PC.

EM220II_Installer
Restarting your computer can take effect.
Please restart your computer.
[Yes] I want to restart my computer now.
[No] I want to restart my computer later.
Yes
No

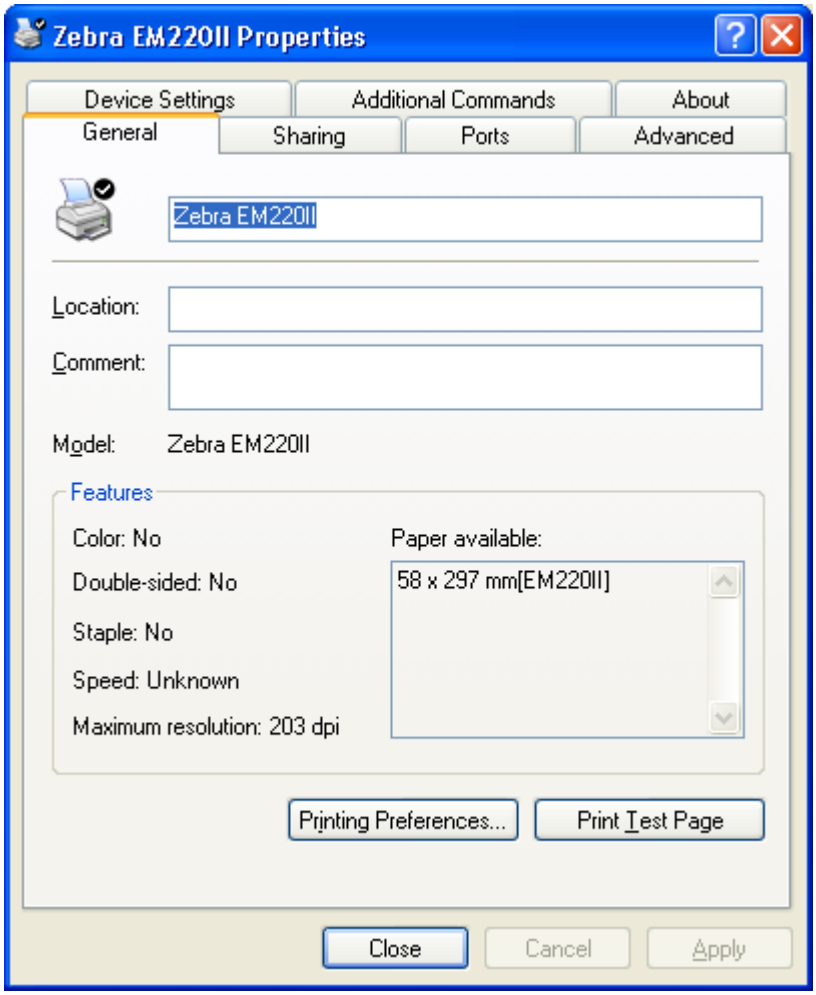
6) Open the printer properties window in the Windows OS.

7) Click the “Port Settings” button in the “Ports” tab.

8) Match the communication settings to those of the printer.
(The communication settings of the printer can be performed by conducting a self-test.)



9) Click the “Print Test Page” button and check printing status.

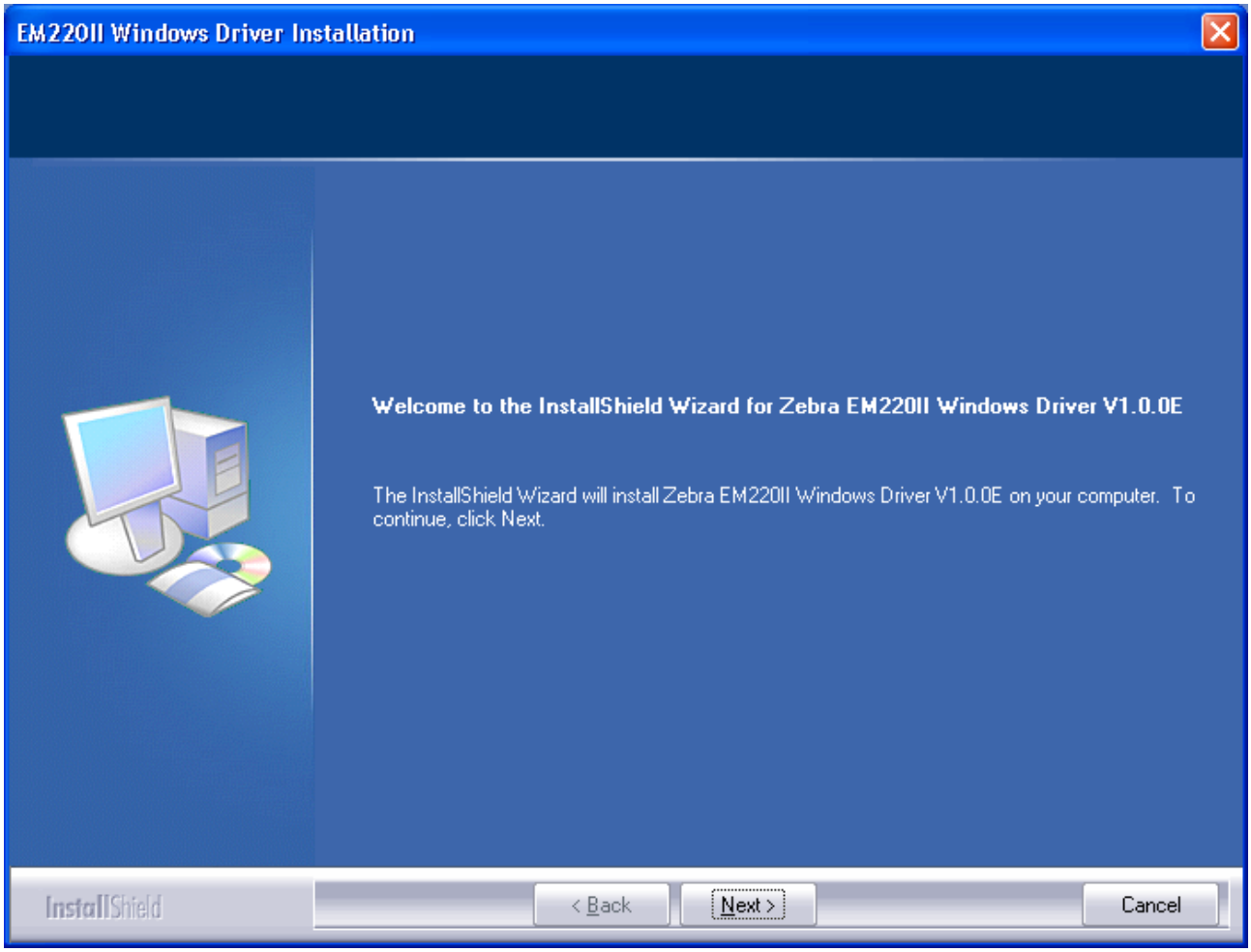


10) Proper installation of the driver is indicated if the test page is printed normally.

4-1-2 Via USB Port

1) Double-click the Windows Driver installation file (EM220II_Vx.x.xx.exe).

2) Click the “Next” button.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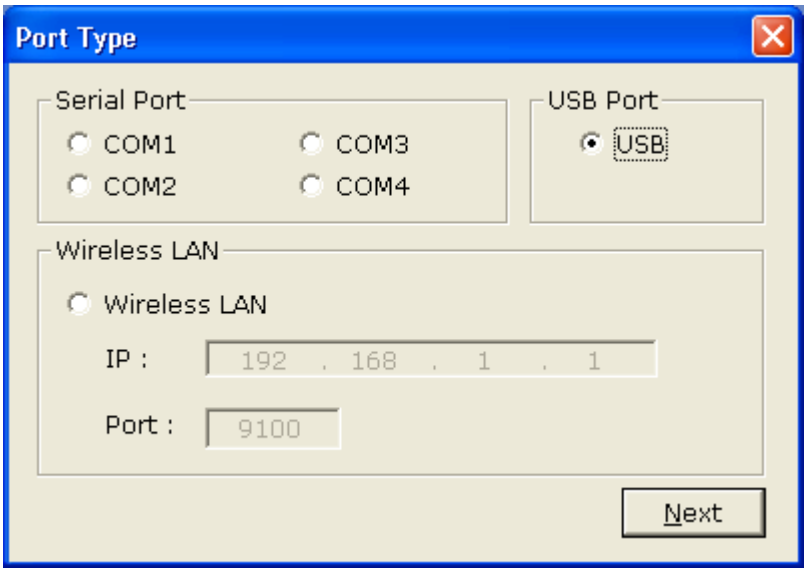
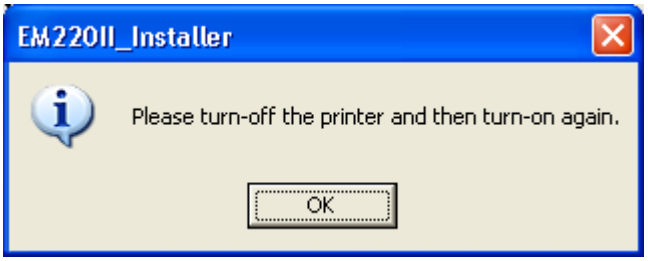
Welcome to the InstallShield Wizard for Zebra EM220II Windows Driver V1.0.0E
The InstallShield Wizard will install Zebra EM220II Windows Driver V1.0.0E on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

3) Select USB and click the “Next” button.

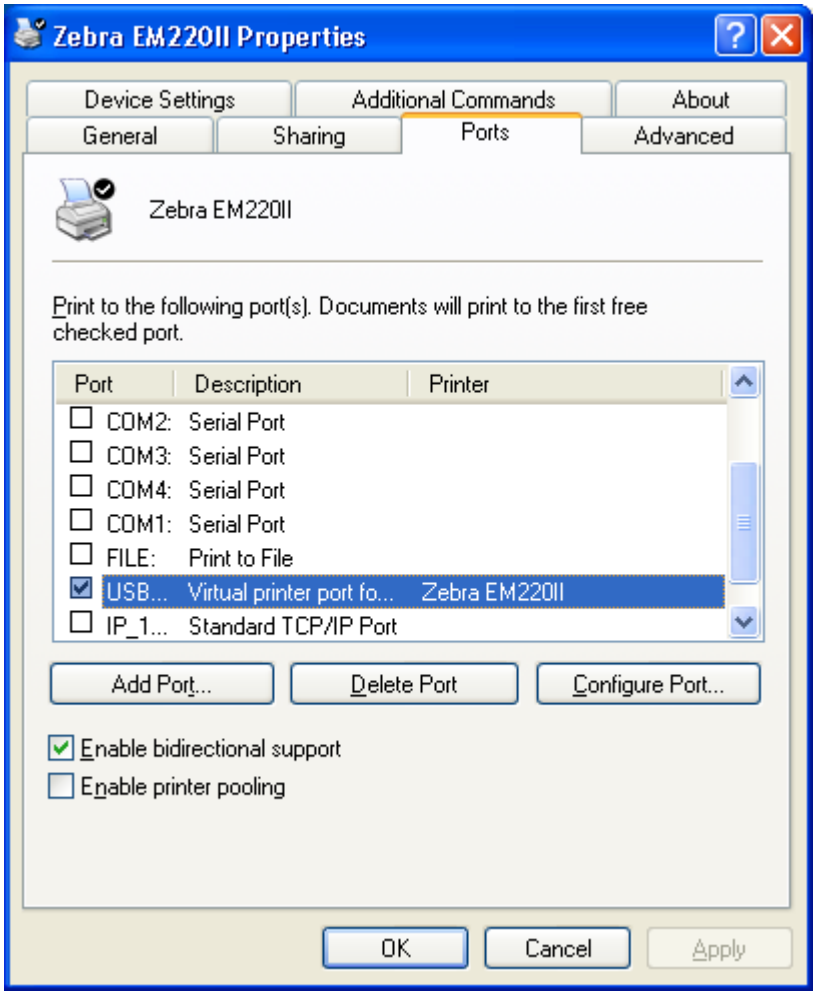


4) Click the “OK” button.

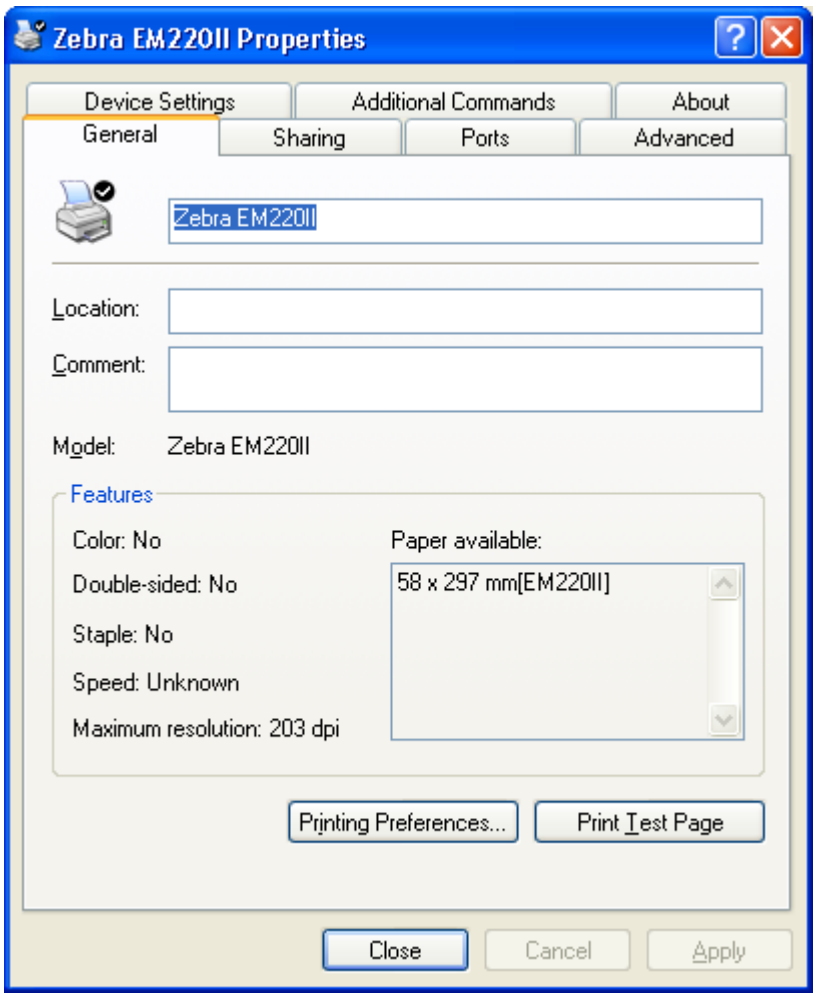


5) Turn on the printer.

6) The USB Port setting can be confirmed in the Windows Driver properties.



7) Click the “Print Test Page” button and check printing status.

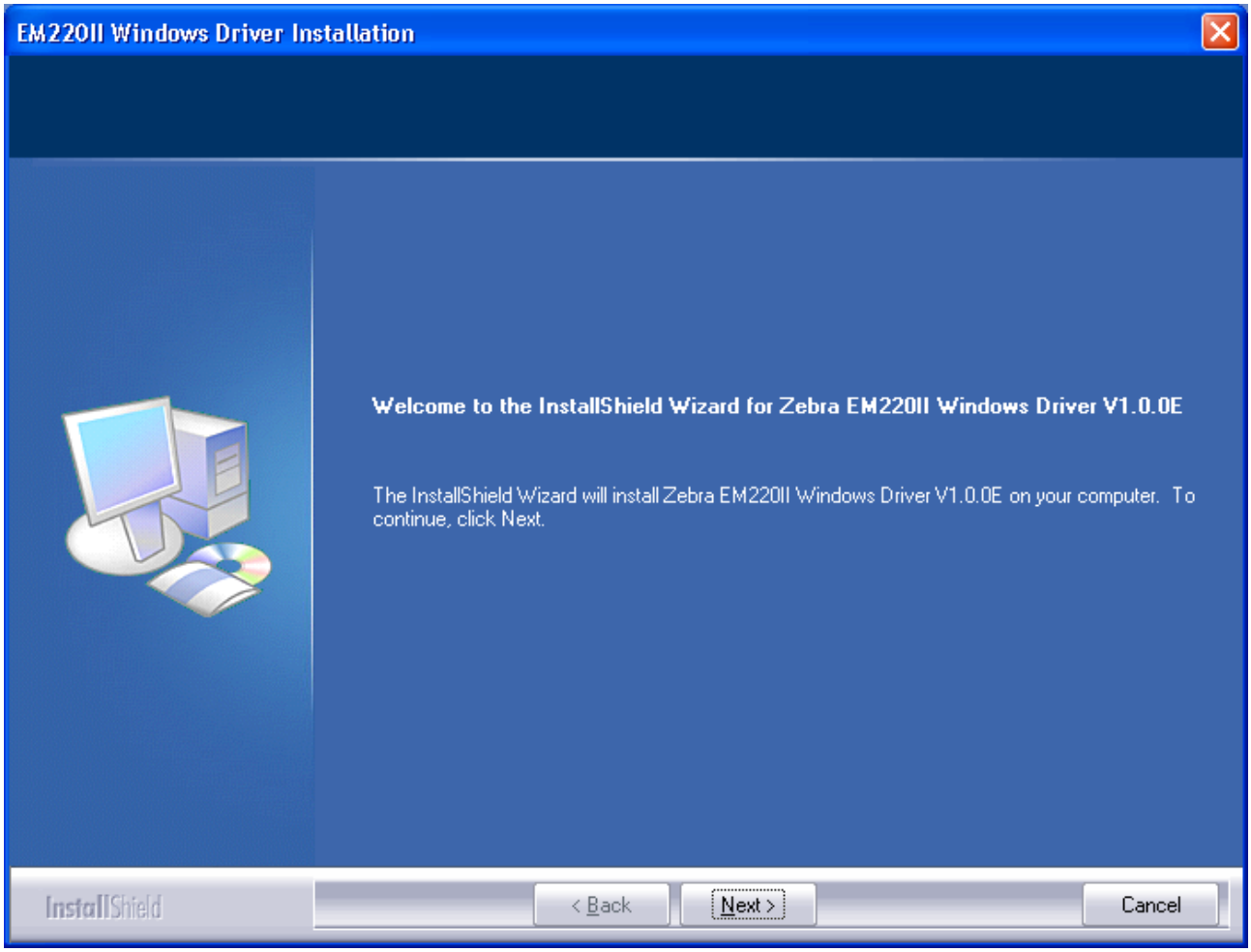


8) Proper installation of the driver is indicated if the test page is printed normally.

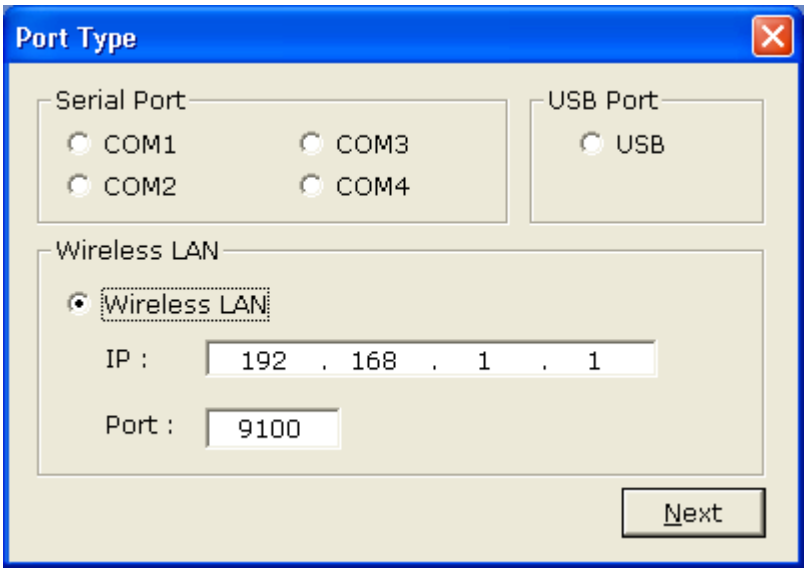
4-1-3 Via WLAN Port

1) Double-click the Windows Driver installation file (EM220II_Vx.x.xx.exe).

2) Click the “Next” button.


EM220II Windows Driver Installation
Welcome to the InstallShield Wizard for Zebra EM220II Windows Driver V1.0.0E
The InstallShield Wizard will install Zebra EM220II Windows Driver V1.0.0E on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

3) Select Wireless LAN and click the “Next” button.



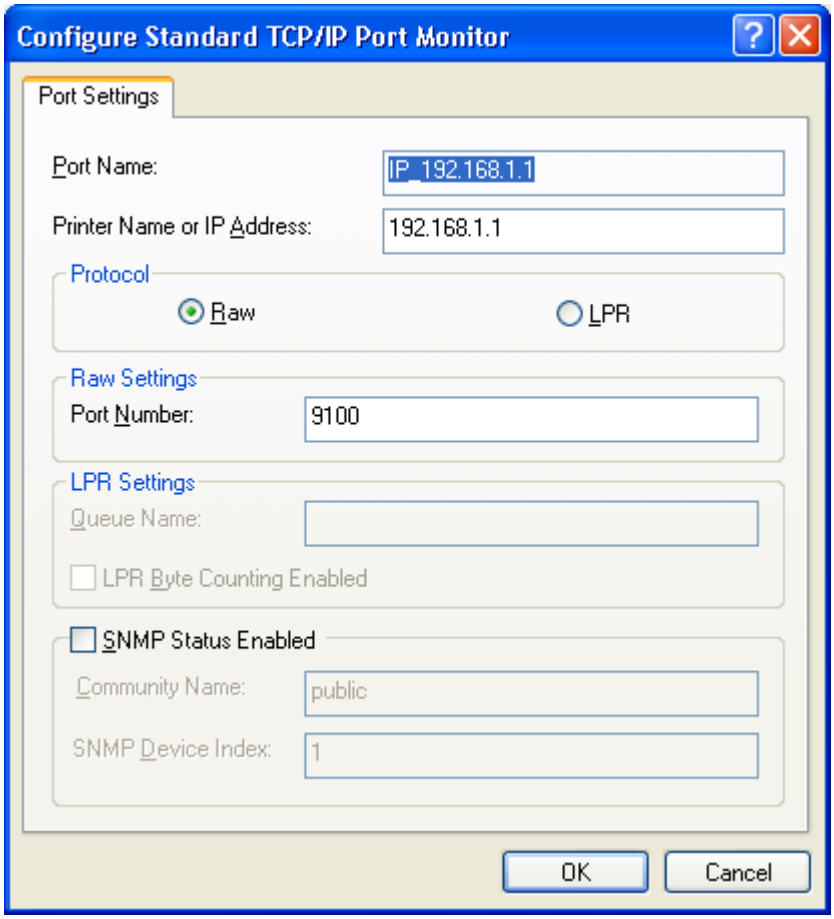
4) Clicking the ”Yes” button will reboot the PC.

EM220II_Installer
Restarting your computer can take effect.
Please restart your computer.
[Yes] I want to restart my computer now.
[No] I want to restart my computer later.
Yes
No

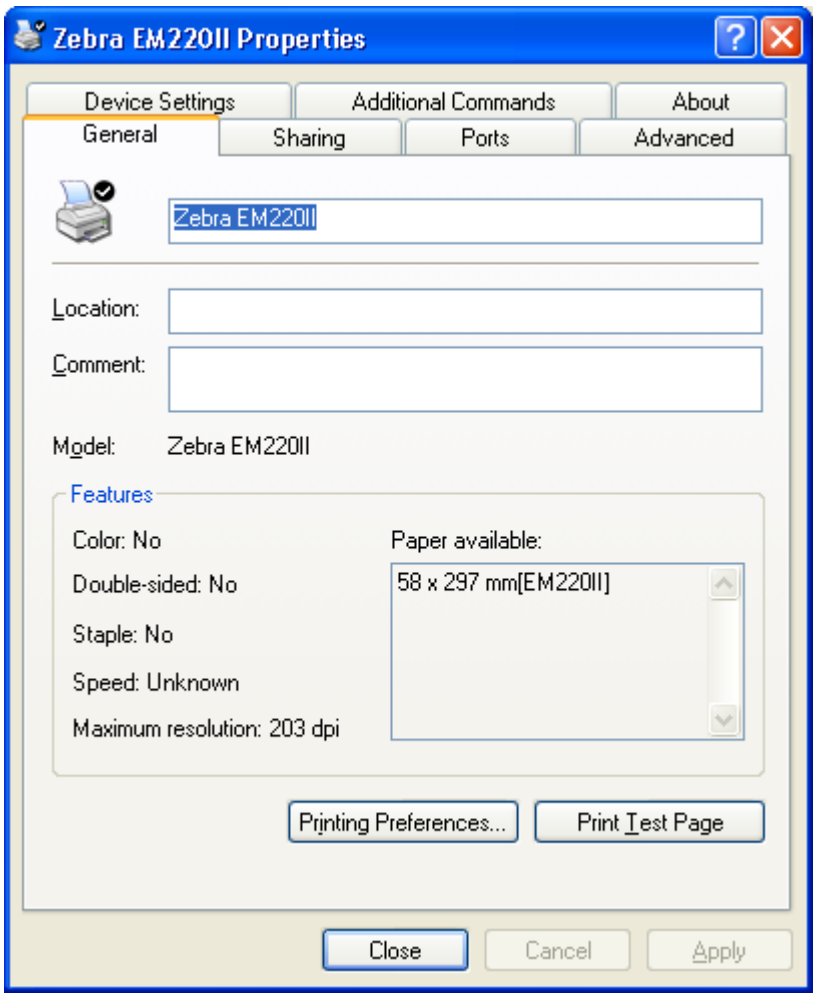
5) Open the printer properties window in the Windows OS.

6) Click the “Port Settings” button in the “Ports” tab.

7) Match the communication settings to those of the printer.
(The communication settings of the printer can be performed by conducting a self-test.)



8) Click the “Print Test Page” button and check printing status.



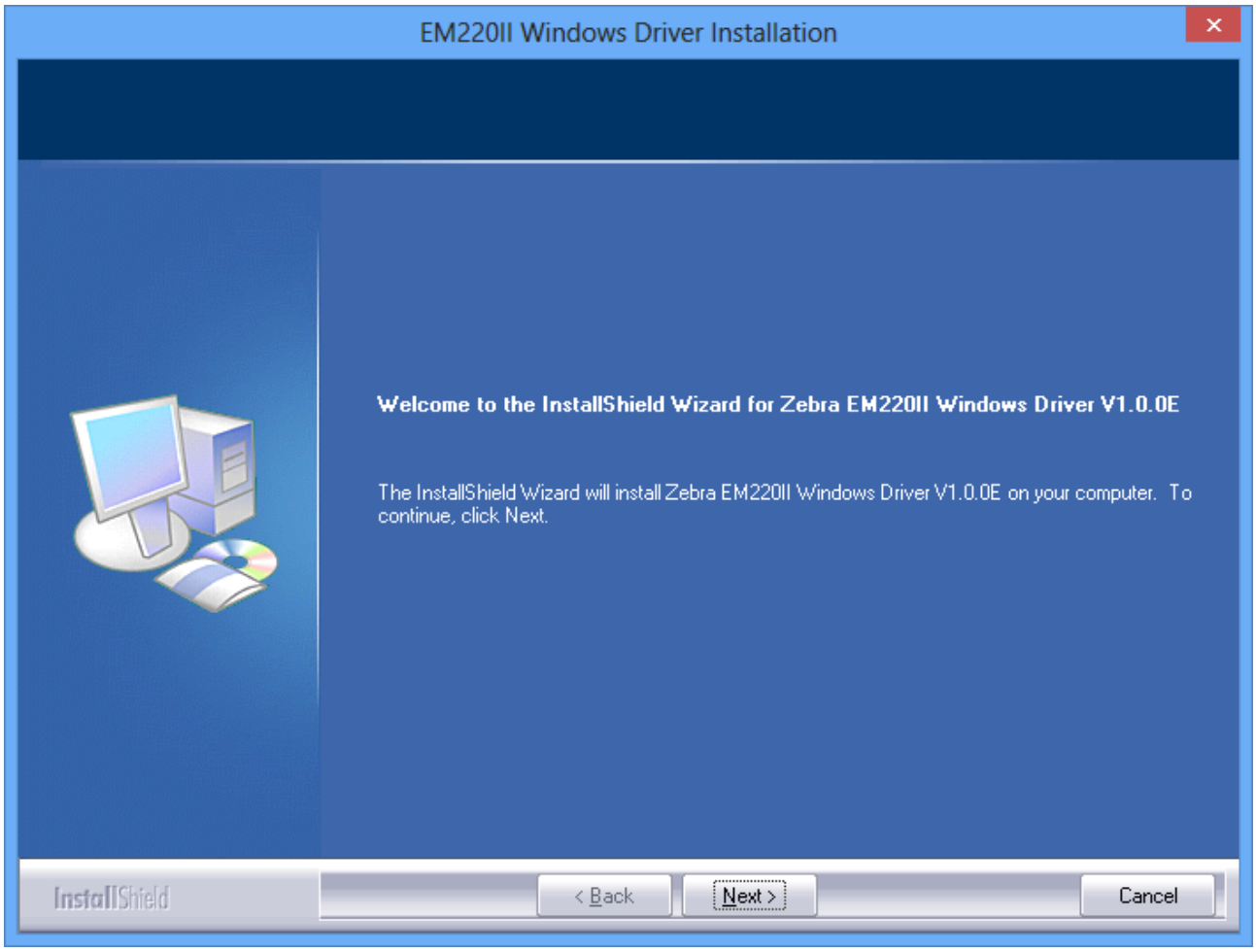
9) Proper installation of the driver is indicated if the test page is printed normally.

4-2 Installing on Windows VISTA/2008 Server/7/8

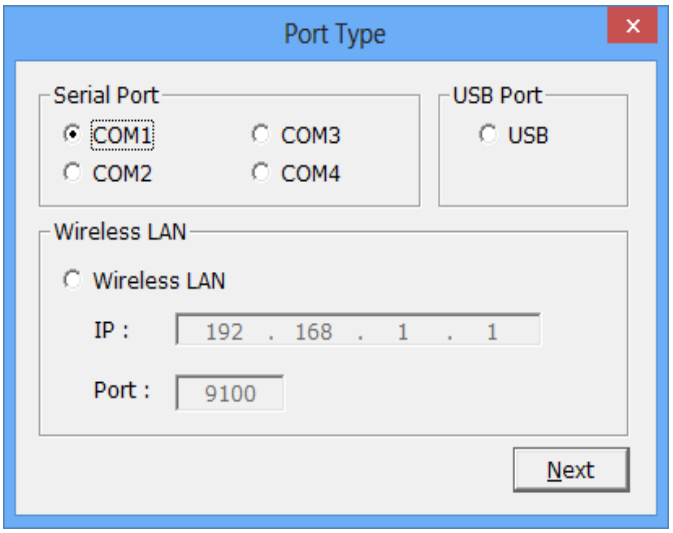
4-2-1 Via Serial Port or Bluetooth

1) Double-click the Windows Driver installation file (EM220II_Vx.x.xx.exe).

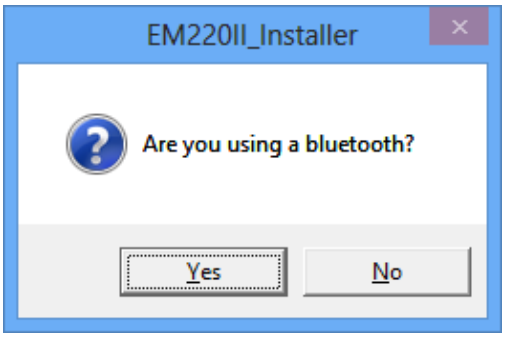
2) Click the “Next” button.


EM220II Windows Driver Installation
Welcome to the InstallShield Wizard for Zebra EM220II Windows Driver V1.0.0E
The InstallShield Wizard will install Zebra EM220II Windows Driver V1.0.0E on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

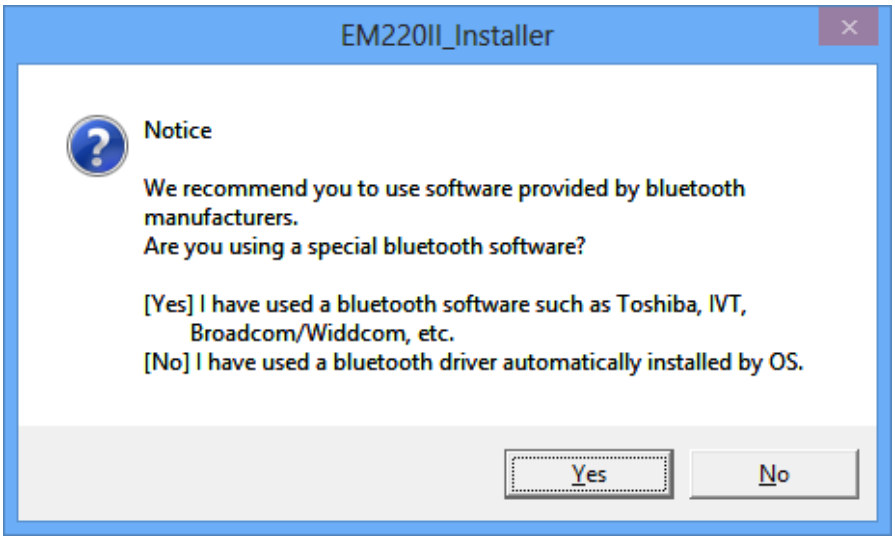
3) Select the COM port to be used and click the “Next” button.



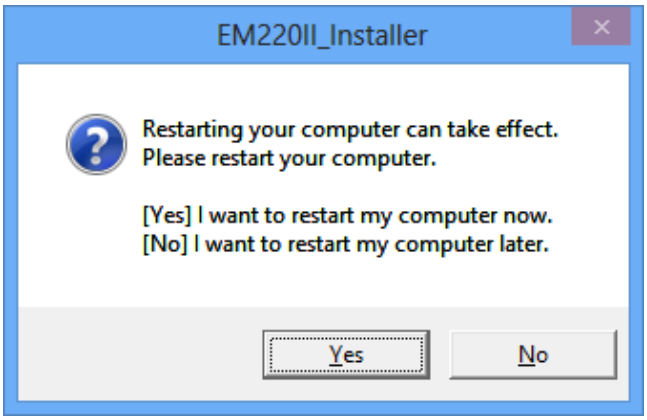
4) If using Bluetooth, click the “Yes” button.
- Click “No” if using a Serial port.
- To use Bluetooth, first install the corresponding product software.
(Refer to the user manual of the corresponding product.)



* Select the Bluetooth Driver to be used.
“Yes”: to use an IVT, Broadcom Driver
“No”: to use a driver supplied by the Windows OS


EM220II_Installer
Notice
We recommend you to use software provided by bluetooth manufacturers.
Are you using a special bluetooth software?
[Yes] I have used a bluetooth software such as Toshiba, IVT, Broadcom/Widdcom, etc.
[No] I have used a bluetooth driver automatically installed by OS.
Yes
No

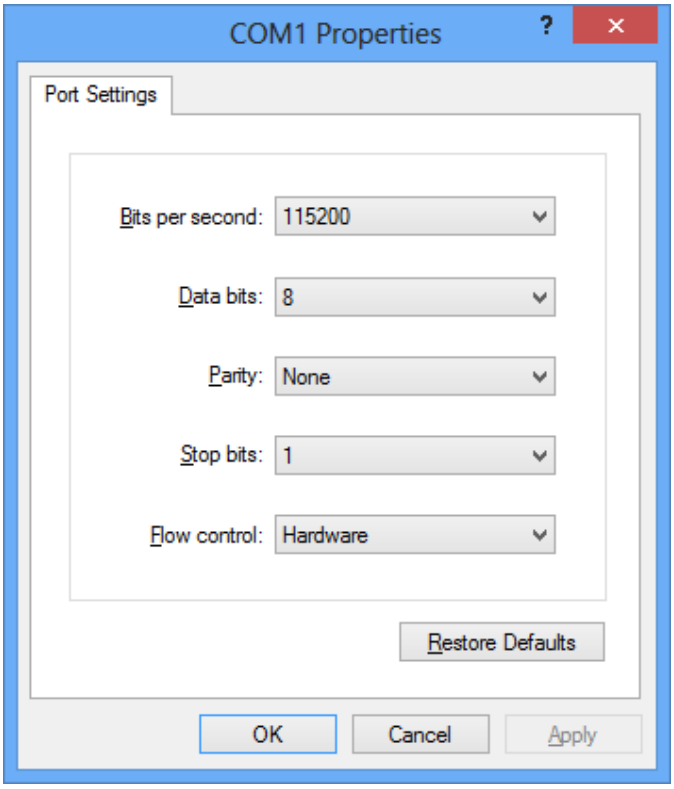
5) Clicking the “Yes” button will reboot the PC.


EM220II_Installer
Restarting your computer can take effect.
Please restart your computer.
[Yes] I want to restart my computer now.
[No] I want to restart my computer later.
Yes
No

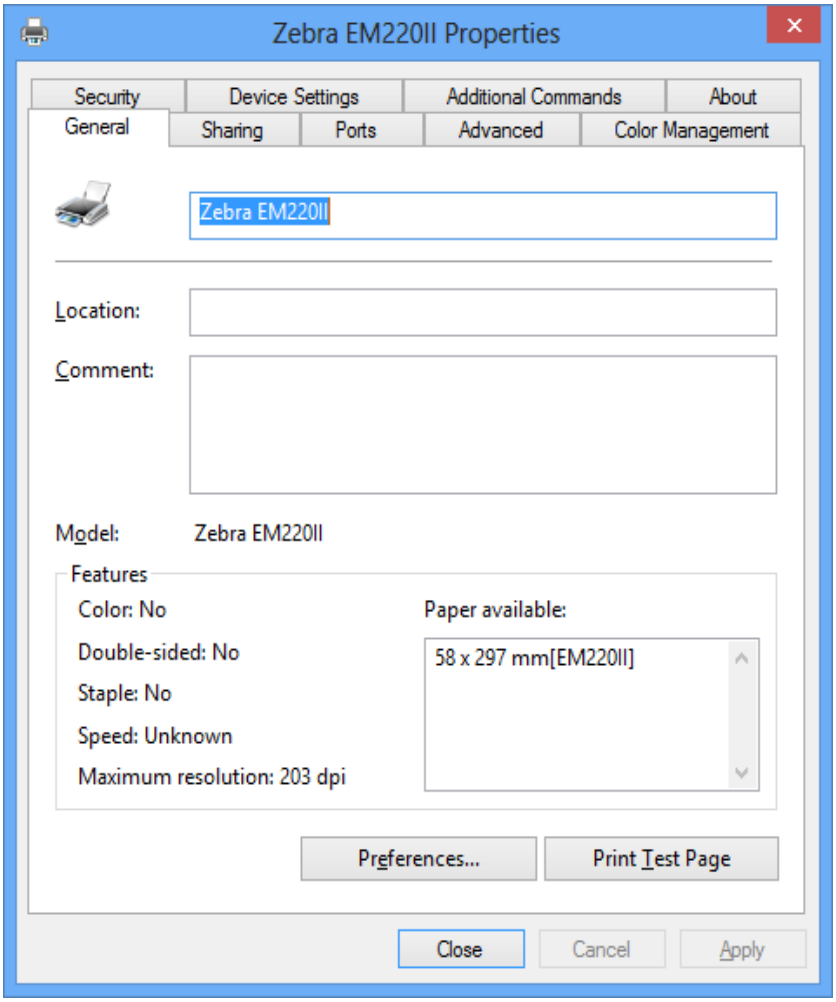
6) Open the printer properties window in the Windows OS.

7) Click the “Port Settings” button in the “Ports” tab.

8) Match the communication settings to those of the printer.
(The communication settings of the printer can be performed by conducting a self-test.)



9) Click the “Print Test Page” button and check printing status.

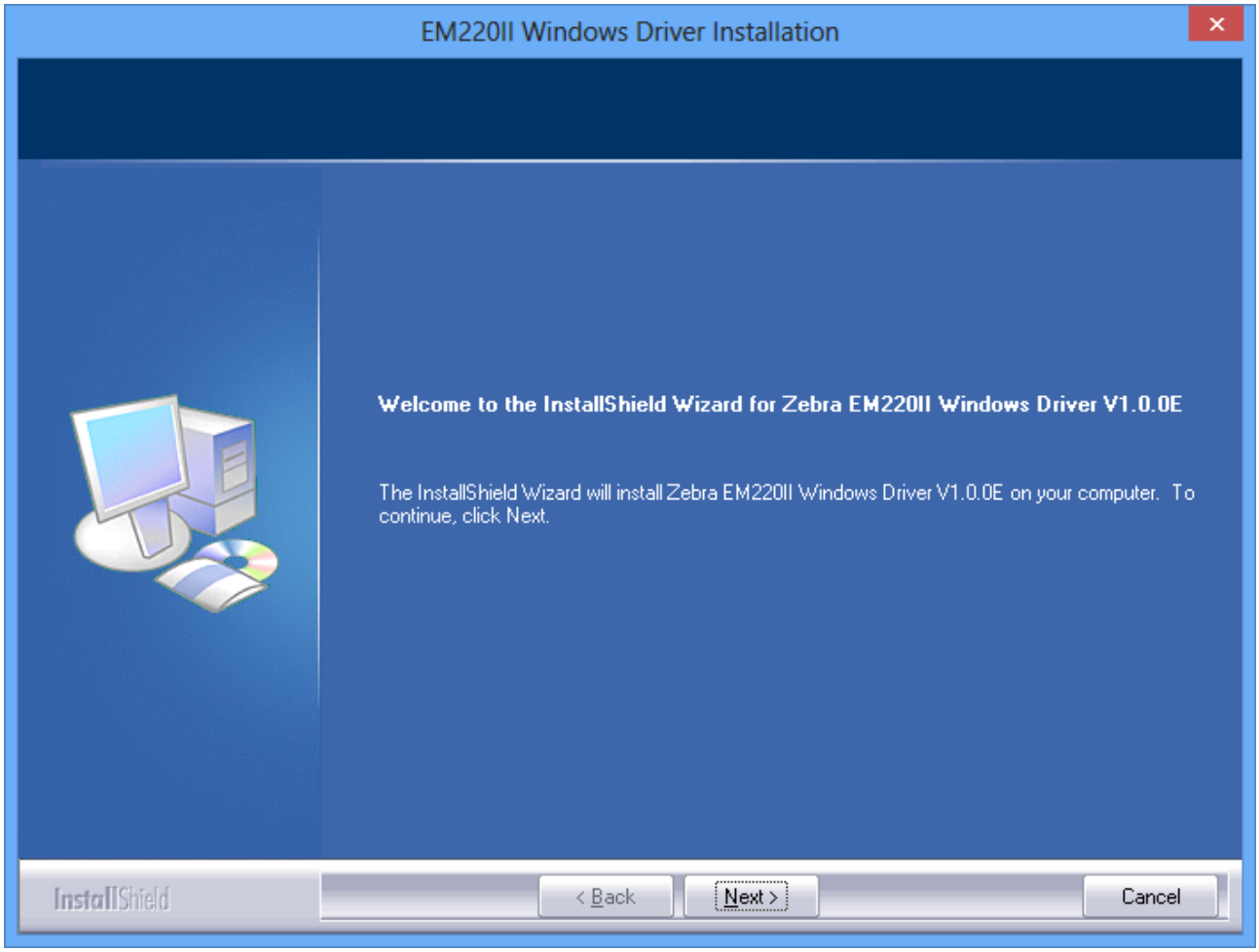


10) Proper installation of the driver is indicated if the test page is printed normally.

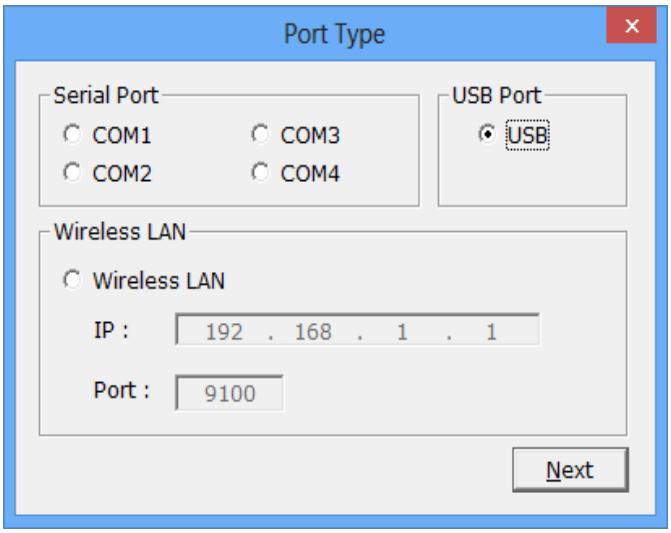
4-2-2 Via USB Port

1) Double-click the Windows Driver installation file (EM220II_Vx.x.xx.exe).

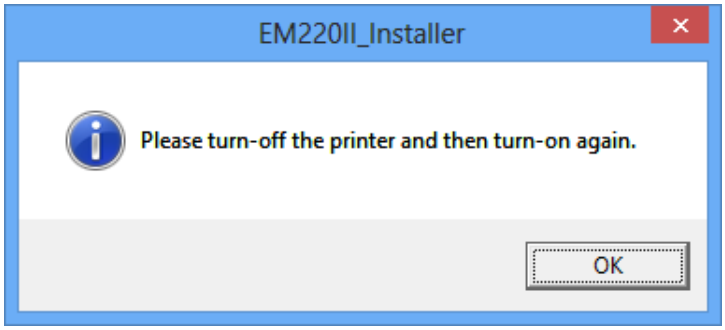
2) Click the “Next” button.


EM220II Windows Driver Installation
Welcome to the InstallShield Wizard for Zebra EM220II Windows Driver V1.0.0E
The InstallShield Wizard will install Zebra EM220II Windows Driver V1.0.0E on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

3) Select USB and click the “Next” button.

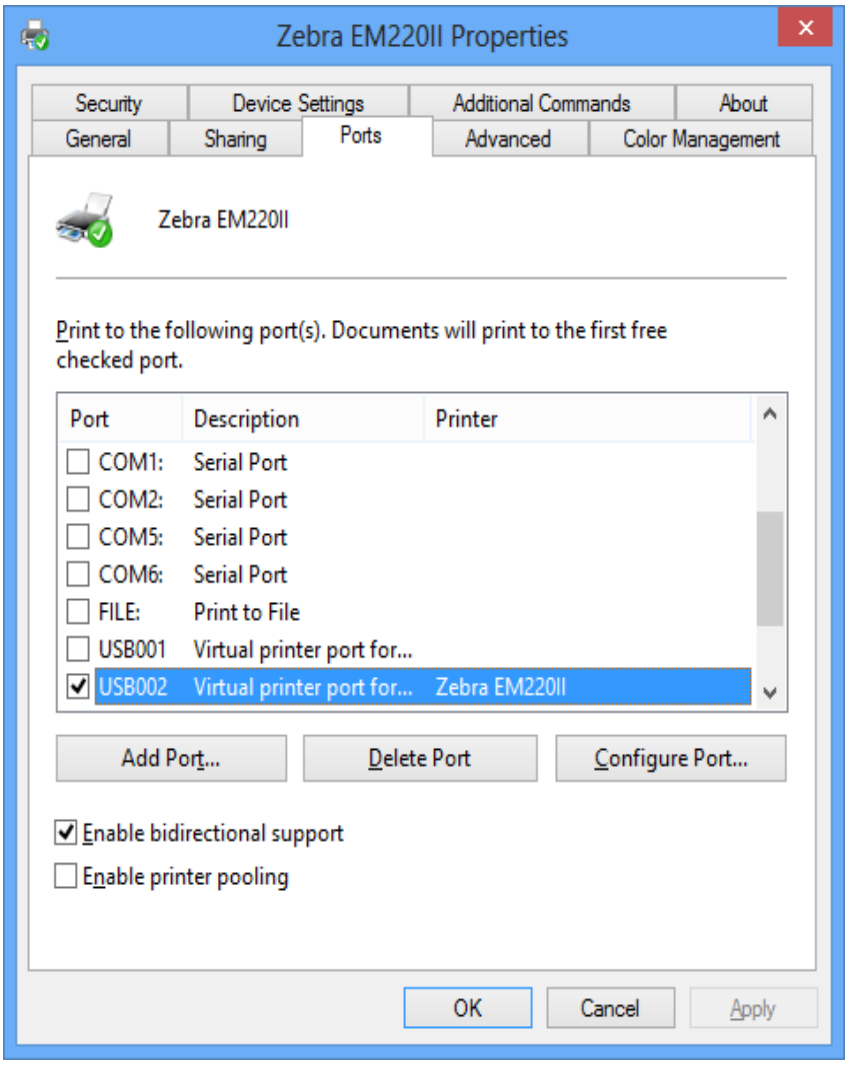


4) Click the “OK” button.

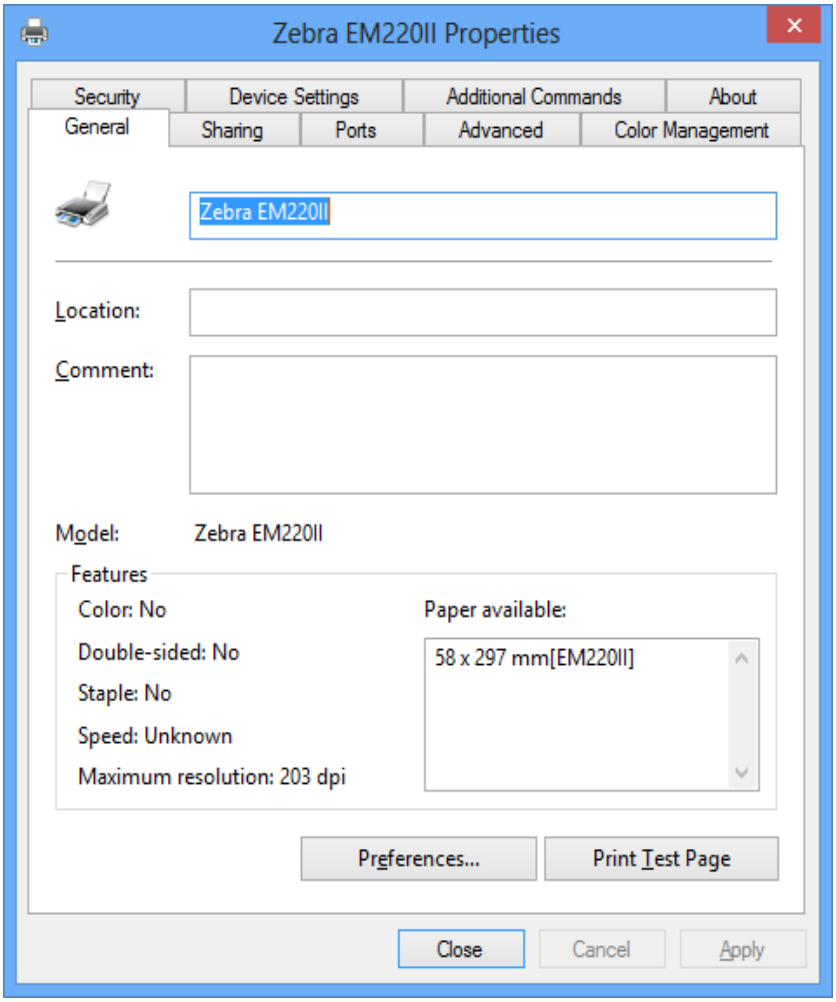


5) Turn on the printer.

6) The USB Port setting can be confirmed in the Windows Driver properties.



7) Click the “Print Test Page” button and check printing status.

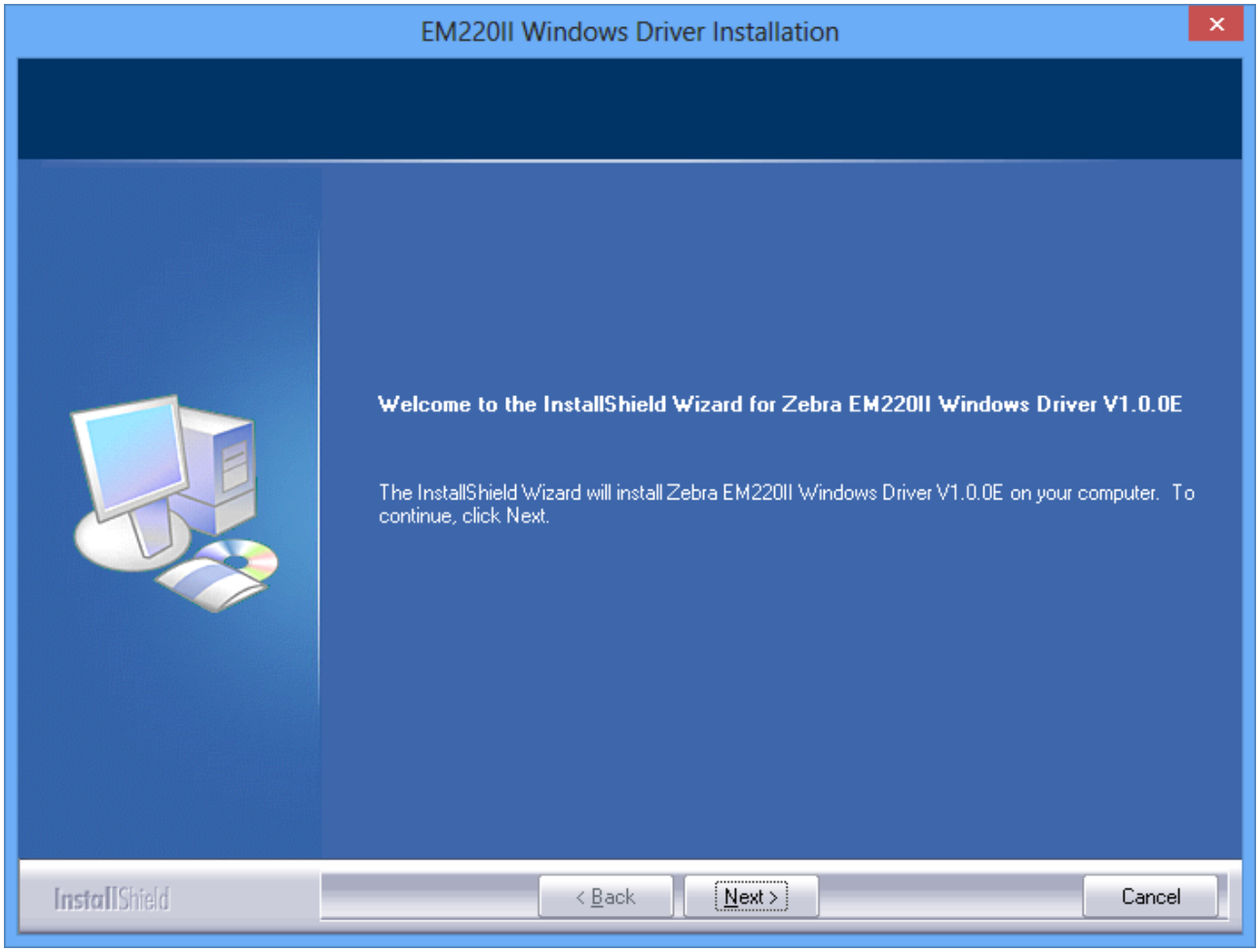


8) Proper installation of the driver is indicated if the test page is printed normally.

4-2-3 Via WLAN Port

1) Double-click the Windows Driver installation file (EM220II_Vx.x.xx.exe).

2) Click the “Next” button.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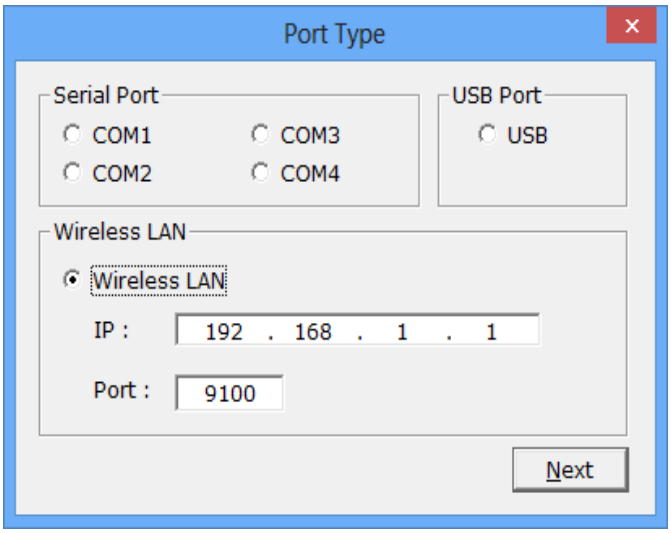
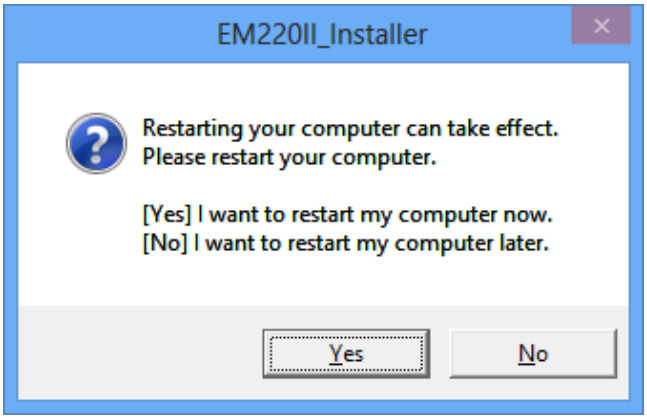
Welcome to the InstallShield Wizard for Zebra EM220II Windows Driver V1.0.0E
The InstallShield Wizard will install Zebra EM220II Windows Driver V1.0.0E on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

3) Select Wireless LAN and click the “Next” button.



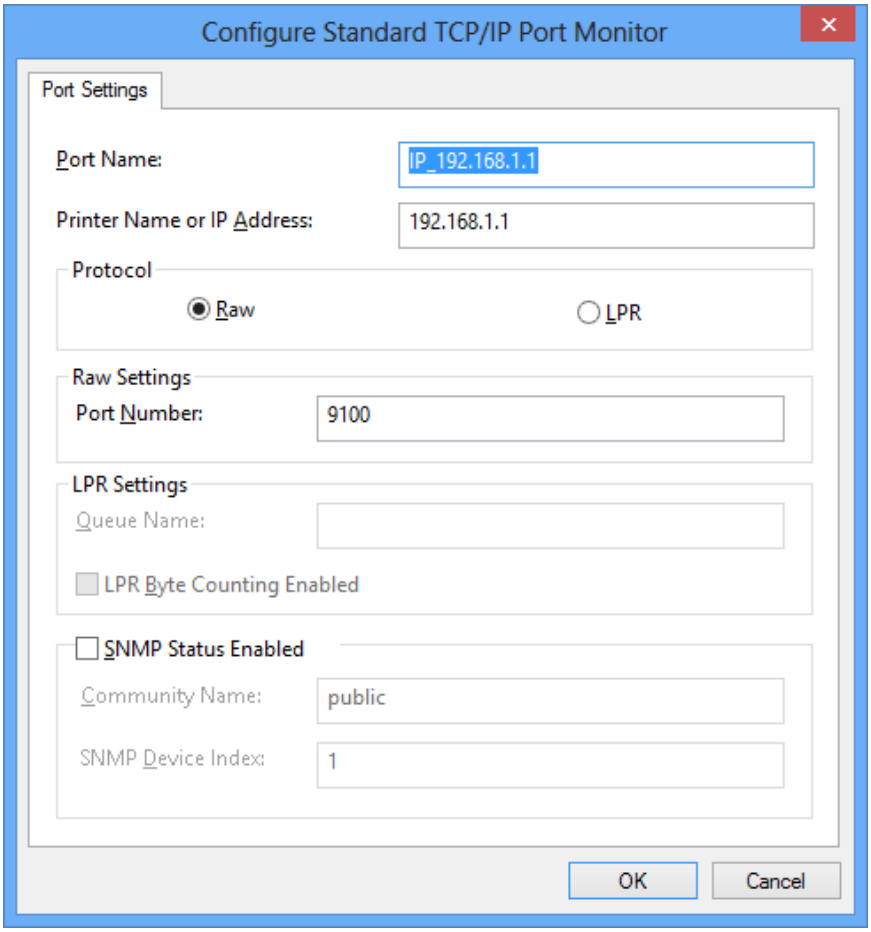
4) Clicking the “Yes” button will reboot the PC.


EM220II_Installer
Restarting your computer can take effect.
Please restart your computer.
[Yes] I want to restart my computer now.
[No] I want to restart my computer later.
Yes
No

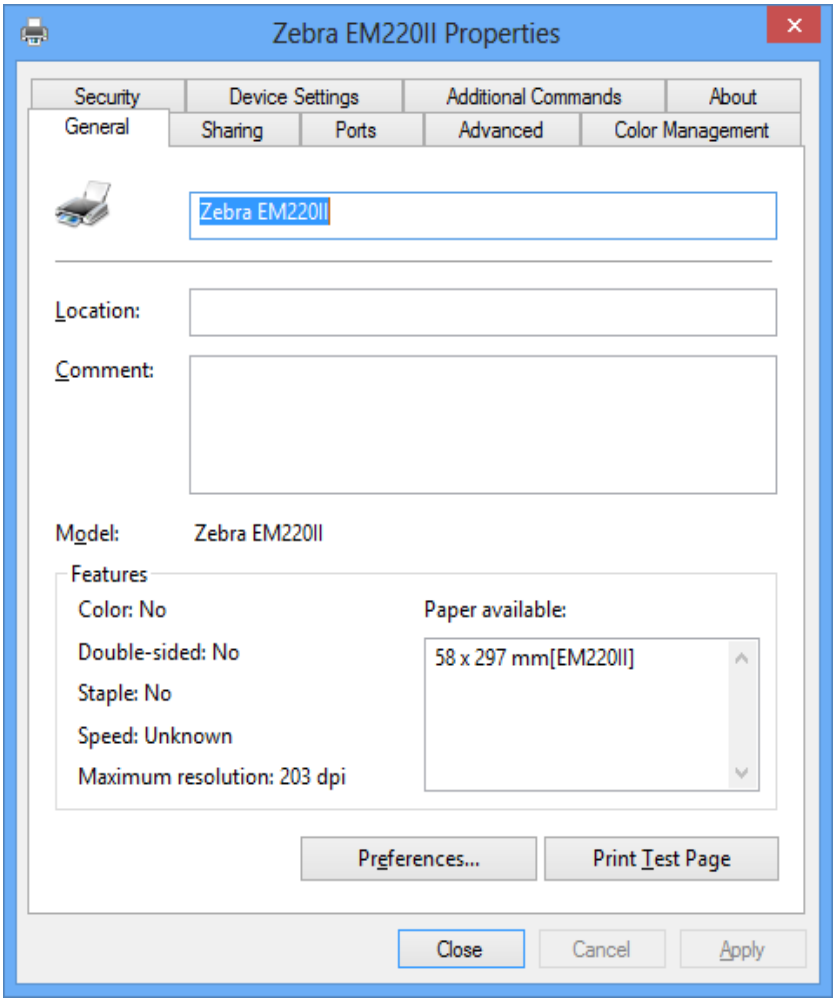
5) Open the printer properties window in the Windows OS.

6) Click the “Port Settings” button in the “Ports” tab.

7) Match the communication settings to those of the printer.
(The communication settings of the printer can be performed by conducting a self-test.)



8) Click the “Print Test Page” button and check printing status.



9) Proper installation of the driver is indicated if the test page is printed normally.

5. Detailed Windows Driver Settings

The following functions can be set in detail after the Windows Driver installation is complete.

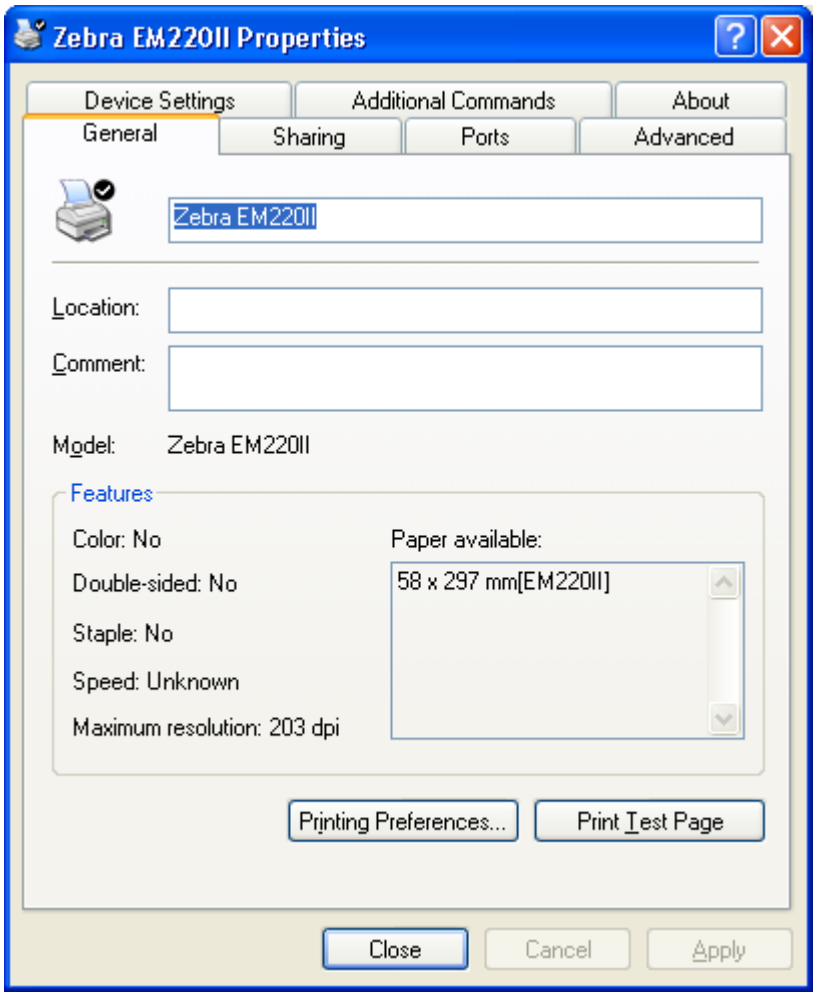
5-1 Paper Supply Method

The printer structure is such that the print head, which carries out printing, and the cutter, which cuts the printing paper, are separated. After printing, the location of the end section can be adjusted as follows.

- Receipt: Printed text is transferred up to the cutter (manual cutter).
- Receipt [No feed]: Printed text is transferred up to the next line only.
  (minimum transfer: 0x0A).
- Form: For long print jobs, printed text is transferred according to the Receipt option per selected paper size.

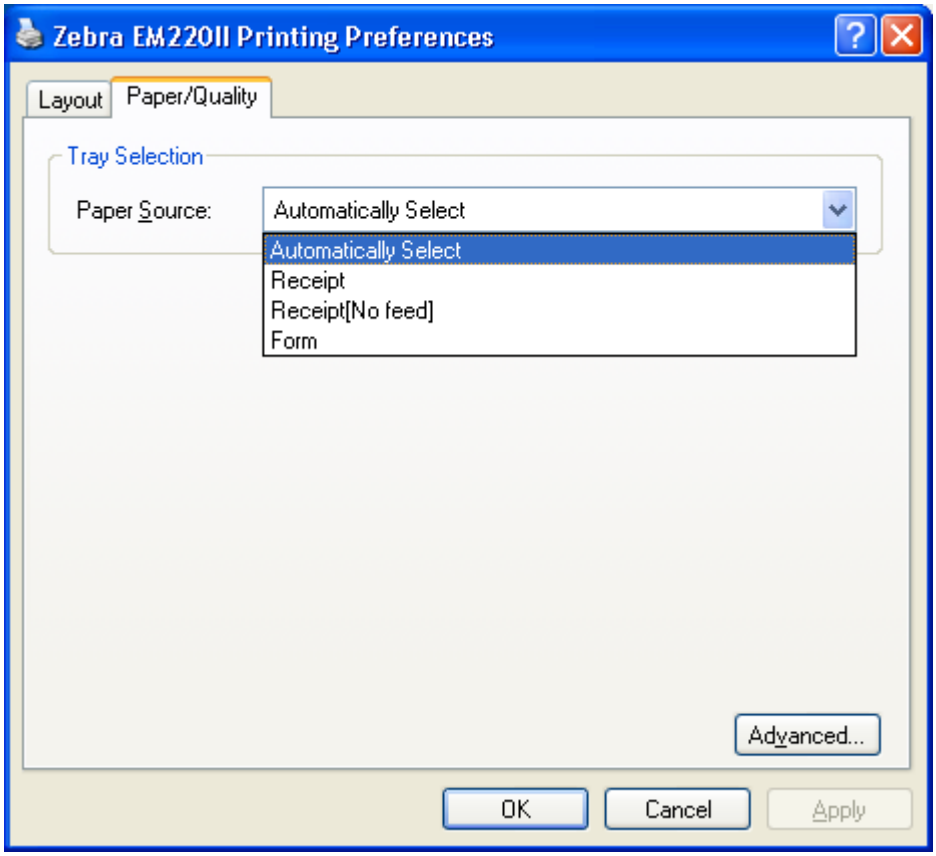
Detailed setting can be done as follows.

1) Open the printer properties window in the Windows OS.



2) Click the “Printing Preferences” button in the “General” tab.

3) Select the desired setting in the “Paper/Quality” tab.
(Resolution is fixed at 203 × 203.)



5-2 Paper Size

The paper sizes available in the Windows Driver are as follows:

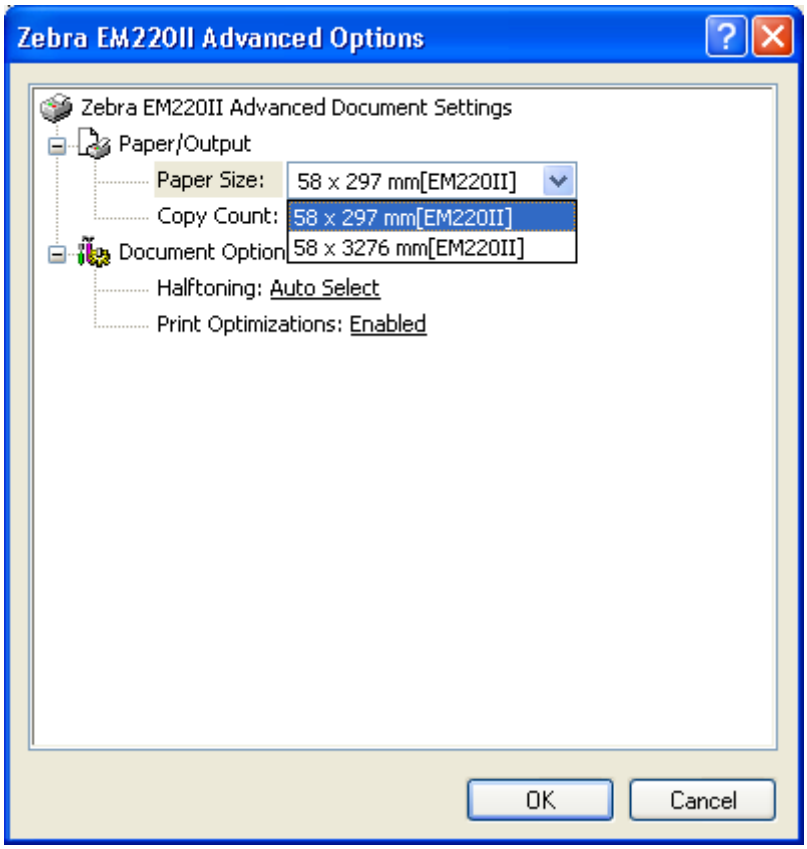
- 58 × 297 mm [EM220II]
- 58 × 3276 mm [EM220II]

Detailed setting can be done as follows:

1) Open the printer properties window in the Windows OS.

2) Click the “Printing Preferences” button in the “General” tab.

3) Select the “Paper/Quality” tab, and click the “Advanced” button.
Select the desired setting.



5-3 Additional Commands

The Windows Driver serves to receive the content for print from an application and send it to the printer. The Additional Commands function allows for the addition of desired commands at the beginning or end of the print content sent to the printer.

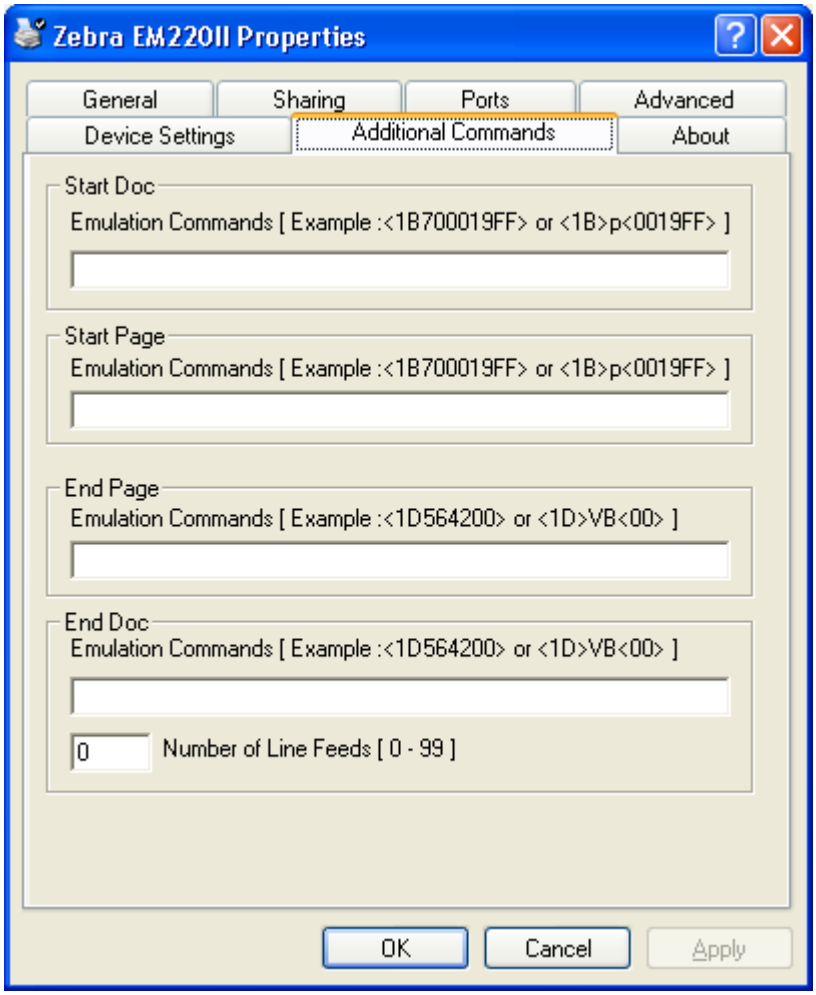
The command functions available are as follows:

- Start Doc : Addition of command at the beginning of the document
- Start Page : Addition of command at the beginning of the page
- End Page : Addition of command at the end of the page
- End Doc : Addition of command/line feeding at the end of the document

Detailed setting can be done as follows:

1) Open the printer properties window in the Windows OS.

2) Click the “Additional Commands” tab.



3) If the user opts to open Cash Drawer 1 prior to printing, enter “<1B700019FF>” in the “Start Doc” space and click the “OK” button.

4) If the user opts to open Cash Drawer 1 at the end of printing, enter “<1B700019FF>” in the “End Doc” space and click the “OK” button.

5) If the user opts to feed three lines at the end of printing, enter “3” in the “End Doc” space and click the “OK” button.

6) When downloading an image to the printer using the Mobile Unified Utility, the image print command is FS p n m (Hex: 1C 70 m n).

For more information on the hexadecimals that can be entered in “Start Doc”, “Start Page”, “End Page” and “End Doc”, refer to the Control Commands Manual.

6. Windows Driver Specifications

6-1 Fonts

The Windows Driver of the printer supports the fonts listed below.
Printing is done at faster speed when using the fonts below as opposed to the Windows fonts of the OS.

Printer Fonts			Character Size (dot)	Sizes (point)
FontA1x1	FontA1x1[Ext.]	FontA1x1[255]	FontA1x1(12x24)	8.5
FontA1x2	FontA1x2[Ext.]	FontA1x2[255]	FontA1x2(12x48)	17
FontA2x1	FontA2x1[Ext.]	FontA2x1[255]	FontA2x1(24x24)	8.5
FontA2x2	FontA2x2[Ext.]	FontA2x2[255]	FontA2x2(24x48)	17
FontA2x4	FontA2x4[Ext.]	FontA2x4[255]	FontA2x4(24x96)	34
FontA4x2	FontA4x2[Ext.]	FontA4x2[255]	FontA4x2(48x48)	17
FontA4x4	FontA4x4[Ext.]	FontA4x4[255]	FontA4x4(48x96)	34
FontA4x8	FontA4x8[Ext.]	FontA4x8[255]	FontA4x8(48x192)	68
FontA8x4	FontA8x4[Ext.]	FontA8x4[255]	FontA8x4(96x96)	34
FontA8x8	FontA8x8[Ext.]	FontA8x8[255]	FontA8x8(96x192)	68
FontB1x1	FontB1x1[Ext.]	FontB1x1[255]	FontB1x1(9x24)	6
FontB1x2	FontB1x2[Ext.]	FontB1x2[255]	FontB1x2(9x48)	12
FontB2x1	FontB2x1[Ext.]	FontB2x1[255]	FontB2x1(18x24)	6
FontB2x2	FontB2x2[Ext.]	FontB2x2[255]	FontB2x2(18x48)	12
FontB2x4	FontB2x4[Ext.]	FontB2x4[255]	FontB2x4(18x96)	24
FontB4x2	FontB4x2[Ext.]	FontB4x2[255]	FontB4x2(36x48)	12
FontB4x4	FontB4x4[Ext.]	FontB4x4[255]	FontB4x4(36x96)	24
FontB4x8	FontB4x8[Ext.]	FontB4x8[255]	FontB4x8(36x192)	48.5
FontB8x4	FontB8x4[Ext.]	FontB8x4[255]	FontB8x4(72x96)	24
FontB8x8	FontB8x8[Ext.]	FontB8x8[255]	FontB8x8(72x192)	48.5

Printer Fonts			Character Size (dot)	Sizes (point)
FontC1x1	FontC1x1[Ext.]	FontC1x1[255]	FontC1x1(9x24)	8.5
FontC1x2	FontC1x2[Ext.]	FontC1x2[255]	FontC1x2(9x48)	17
FontC2x1	FontC2x1[Ext.]	FontC2x1[255]	FontC2x1(18x24)	8.5
FontC2x2	FontC2x2[Ext.]	FontC2x2[255]	FontC2x2(18x48)	17
FontC2x4	FontC2x4[Ext.]	FontC2x4[255]	FontC2x4(18x96)	34
FontC4x2	FontC4x2[Ext.]	FontC4x2[255]	FontC4x2(36x48)	17
FontC4x4	FontC4x4[Ext.]	FontC4x4[255]	FontC4x4(36x96)	34
FontC4x8	FontC4x8[Ext.]	FontC4x8[255]	FontC4x8(36x192)	68
FontC8x4	FontC8x4[Ext.]	FontC8x4[255]	FontC8x4(72x96)	34
FontC8x8	FontC8x8[Ext.]	FontC8x8[255]	FontC8x8(72x192)	68

Printer Fonts are defined as follows.

1) FontA1x2
   - ANSI Character code support (Code Page 16: 1252)
   - Character size (dot): 12 x 24 (double height)
   - Sizes (point): 17

2) FontA1x2[Ext]
   - IBM expansion Character code support (Code Page 0: 437)
   - Character size (dot): 12 x 24 (double height)
   - Sizes (point): 17

3) FontA1x2[255]
   - Buyer exclusive code support (Code Page 255)
   - Character size (dot): 12 x 24 (double height)
   - Sizes (point): 17

6-2 Special Functions

The Windows Driver supports the special functions indicated below.
These special functions are available when using the characters after the “FontControl” font is selected.

Note: This function is not an ordinary character printing function.

Character	Special Function
5	Prints HT (0 x 09)
6	Prints LF (0 x 0A)
7	Prints CR (0 x 0D)
i	Prints 1st color image in double-sized mode.
j	Prints 2nd color image in double-sized mode.
k	Prints 3rd color image in double-sized mode.
l	Prints 4th color image in double-sized mode.
m	Prints 5th color image in double-sized mode.
p	Does not add HRI characters to the barcode
q	Adds HRI characters in FontA above the barcode
r	Adds HRI characters in FontA below the barcode
s	Adds HRI characters in FontB above the barcode
t	Adds HRI characters in FontB below the barcode
w	Aligns text to the left
x	Aligns text to the center
y	Aligns text to the right
R	Prints 1st color image.
S	Prints 2nd color image.
T	Prints 3rd color image.
U	Prints 4th color image.
V	Prints 5th color image.

1) Sample Use

If the “FontControl” font is selected and 6 is entered, the “LF” (Line Feeding) operation is activated.
(does not entail the printing of the character “6”)

2) “FontControl” Font Function

Printer Font for Special Function	Function	Size(point/dot)
FontControl	Justification (Left/Center/Right) Output HT, Output LF, Output CR Barcode Printing Print NV Graphic Data	(8.5 / 12x24)

6-3 Barcodes

The Windows Driver supports the barcodes indicated below.
This function is available when entering barcode data after selecting “Printer Font Name”.
In addition, the “FontControl” font can be used to add HRI characters.

Printer Font Name	Size	Supported Characters
Codabar	18/35.5/53/71	Numeric: 0~9 Symbols: $, +, -, ., /, : Letters: A~D
Code39	18/35.5/53/71	Numeric: 0~9 Symbols: $, +, -, ., / Letters: A~Z
JAN13(EAN)	18/35.5/53/71	Numeric: 0~9
JAN8(EAN)	18/35.5/53/71	Numeric: 0~9
ITF	18/35.5/53/71	Numeric: 0~9
UPC-A	18/35.5/53/71	Numeric: 0~9
UPC-E	18/35.5/53/71	Numeric: 0~9
Code93	18/35.5/53/71	ASCII CODE: 0~127
Code128	18/35.5/53/71	ASCII CODE: 0~127

1) Sample Use

Select “Code39” and Size “18”, and then enter “1234”.
The barcode corresponding to “1234” is printed.

2) When Using Code128

Select “Code128” and Size “18”, and then enter “{B1234”.
The barcode corresponding to “1234” is printed.

When using “Code128”, characters, such as “{A”, “{B”, “{C”, must be included before the input data.

6-4 Two-Dimensional Barcodes

The Windows Driver supports the following two-dimensional barcodes.

- PDF417
- QR Code

Usage is identical to that for barcodes.

7. Use of Windows Driver

7-1 Use of Visual Basic

This section explains the use of the Windows Driver with Visual Basic to control the printer (EM220II).

Sample programs are saved together if the Windows Driver is installed.

7-1-1 Windows Driver Selection

The following code is an example of the selection of the “Zebra EM220II” Windows Driver:

```
For Each prnPrinter In Printers
If prnPrinter.DeviceName = “Zebra EM220II” Then
Set Printer = prnPrinter
Exit For
End If
Next
```

7-1-2 Test Printing

The following code is an example of the printing of Arial Test via the Windows font, and FontA1x1Test via the printer font:

```
'Print in Windows font
Printer.FontSize = 9
Printer.FontName = “Arial”
Printer.Print “Arial Test”


'Print in printer font
Printer.FontSize = 8.5
Printer.FontName = “FontA1x1”
Printer.Print “FontA1x1Test”

Printer.EndDoc
```

7-1-3 Barcode Printing

The following code is an example of the printing of the JAN8 (EAN) barcode:

```
'Print Bar Code.
Printer.FontSize = 18

Printer.FontName = "JAN8 (EAN)"
Printer.Print "1234567"

Printer.EndDoc
```

7-1-4 Two-Dimensional Barcode Printing

The following code is an example of the printing of the PDF417 two-dimensional barcode:

```
'Print Two-dimensional Codes.
Printer.FontSize = 9.5

Printer.FontName = "PDF417"
Printer.Print "Print Test PDF417"

Printer.EndDoc
```

7-2 Use of WordPad

7-2-1 WordPad Environment Settings

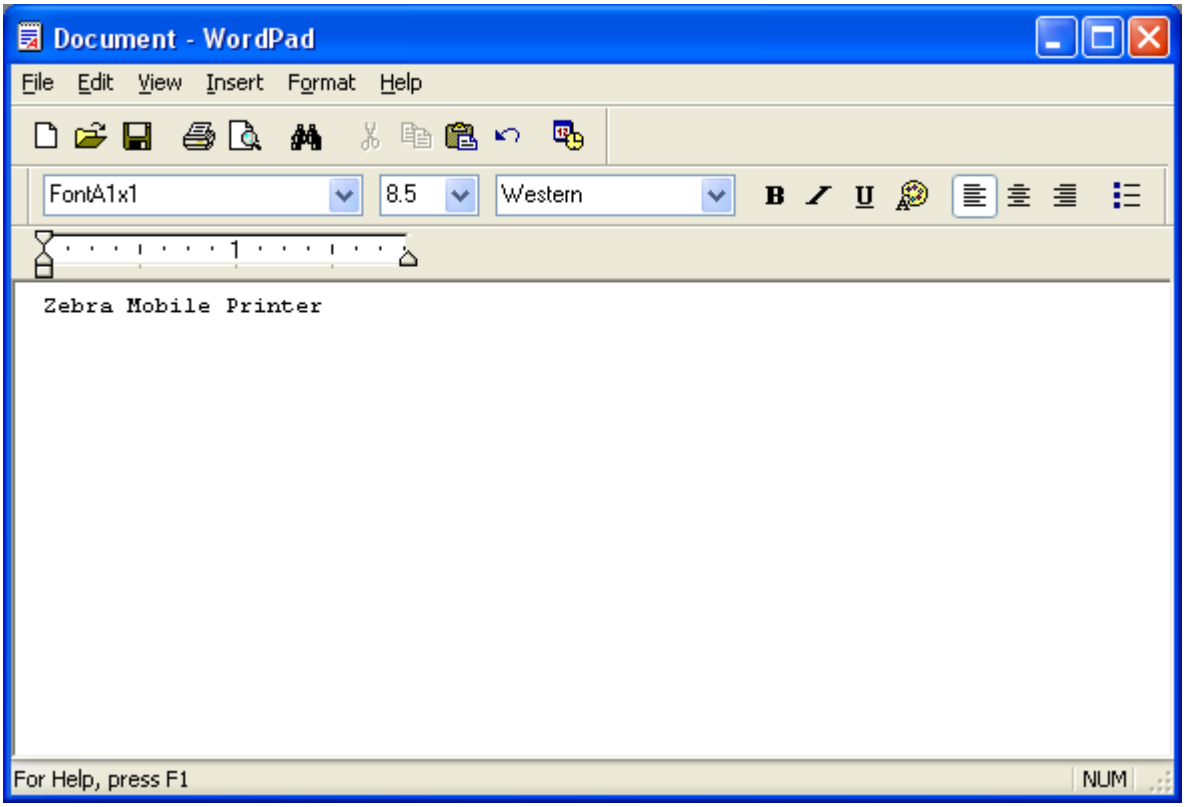
After running WordPad and setting the following conditions, conduct a test.

- Select Printer
  After selecting “Print” from the “File” tab, select the printer (Zebra EM220II).

- Select Paper Size, Orientation, and Margins
  After selecting “Page Settings” from the “File” tab, select the paper size, orientation, and margins.

7-2-2 Text Printing

Use the Windows Driver of the printer to run a test.



1) Select the desired font from the Font menu (FontA1x1).

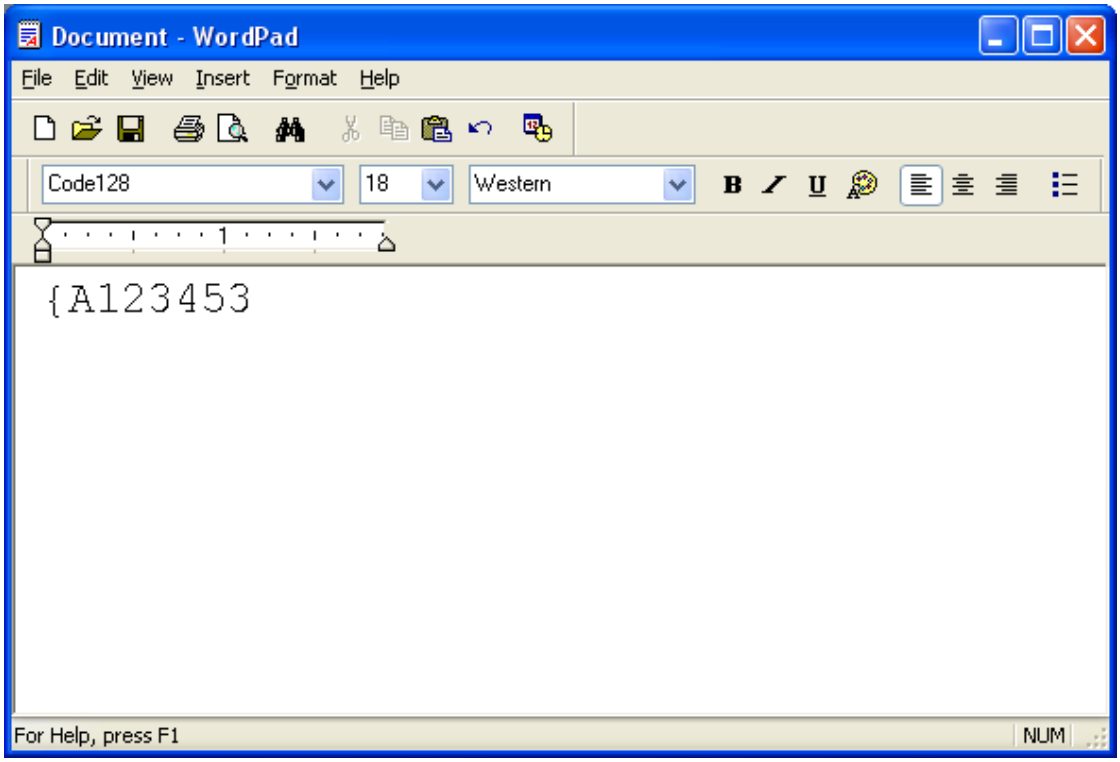
2) Select the desired font size (8.5).

3) Enter the text to be printed in WordPad.

4) Click the Print button in the toolbar to print.

7-2-3 Barcode Printing

Use the Windows Driver of the printer to print the barcode.



1) Select the desired barcode from the Font menu (Code128).

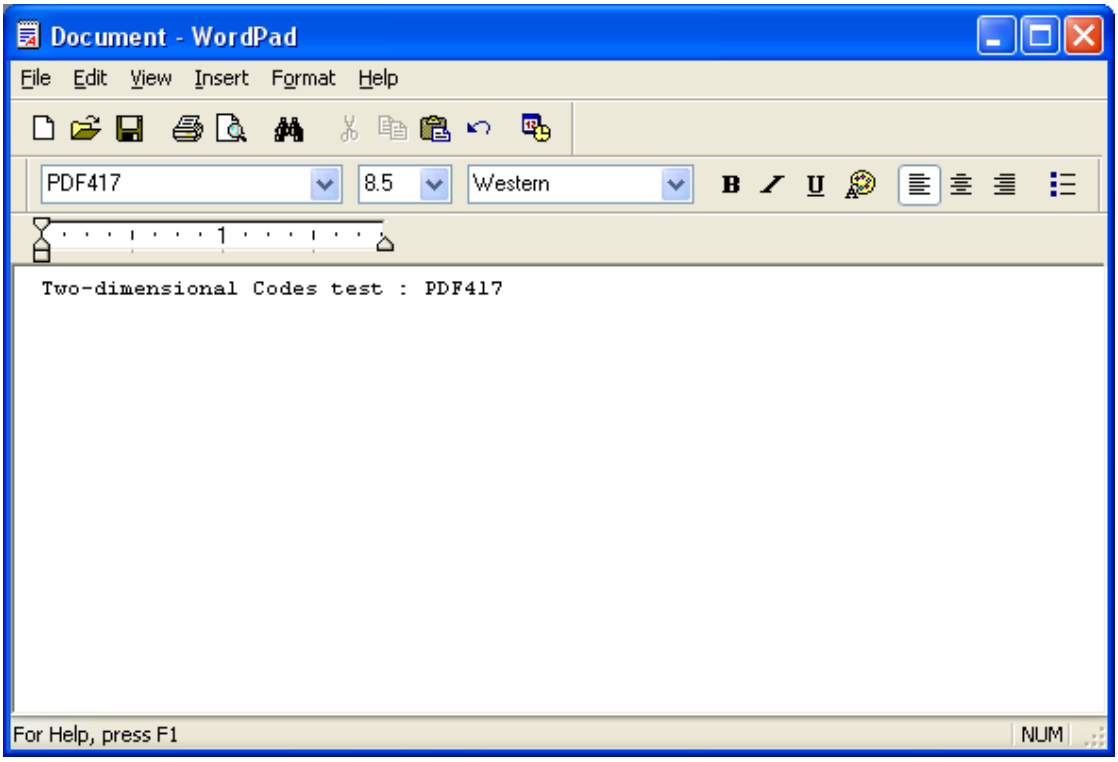
2) Select the desired font size (18).

3) Enter “{A123435” in WordPad.

4) Click the Print button in the toolbar to print.

7-2-4 Two-Dimensional Barcode Printing

Use the Windows Driver of the printer to print the two-dimensional barcode.



1) Select the desired two-dimensional barcode from the Font menu (PDF417).

2) Select the desired font size (8.5).

3) Enter “Two-dimensional Codes Test: PDF417” in WordPad.

4) Click the Print button in the toolbar to print.

www.zebra.com

Zebra Technologies International, LLC
333 Corporate Woods Parkway
Vernon Hills, Illinois 60061, 3109 USA
Phone: +1.847.634.6700
Toll-Free: +1.800.423.0422
Fax: +1.847.913.8766

Zebra Technologies Europe Limited
Dukes Meadow
Millboard Road
Bourne End
Buckinghamshire, SL8 5XF, UK
Phone: +44 (0)1628 556000
Fax: +44 (0)1628 556001